



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/901,153	07/10/2001	Hyun-sook Kang	Q63309	5826

7590 03/17/2005

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC  
2100 Pennsylvania Avenue, NW  
Washington, DC 20037-3213

EXAMINER
----------

TON, ANTHONY T

ART UNIT	PAPER NUMBER
----------	--------------

2661

DATE MAILED: 03/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/901,153

Applicant(s)

KANG ET AL.

Examiner

Anthony T Ton

Art Unit

2661

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 10 July 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 July 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 5/27/04 & 10/9/03.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

PHIRIN SAM  
PRIMARY EXAMINER

## DETAILED ACTION

### *Specification*

1. The disclosure is objected to because of the following informalities:

Term “the wireless communication system in **FIG. 4**” in page 8 line 11 is improper since the Fig.4 is not a wireless communication system, but it is a packet.

Examiner suggests changing this term to “the wireless communication system in **FIG. 7**”.

Appropriate correction is required.

### *Drawings*

2. **Figure 1** and **Figure 2** should be designated by a legend such as --Prior Art-- because they are conventional as described in the specification page 1 lines 10-11 and page 2 lines 10-13, respectively. See MPEP § 608.02(g).

3. The reference “**HEL**” listed in the last field of the Header in Figure 2 is improper.

Examiner believes this must be a typographical error.

Examiner suggests changing this term to “**HEC**” to be associated with the term “Header Error Check”.

Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled “Replacement Sheet” in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. **Claims 1-18** are rejected under 35 U.S.C. 102(e) as being anticipated by *Van Valkenburg et al.* (US Patent No. 6,775,258) hereinafter referred to as *Van*.

a) **In Regarding to Claim 1:** *Van* disclosed a wireless communication device of a wireless communication system having a plurality of slaves devices, including a source slave device and a destination slave device, and a master device that is connected to the plurality of slave devices and that has information of addresses allocated to the plurality of slave devices (*see Fig.2*), the wireless communication device comprising:

a transceiving unit for receiving external data, and transmitting a packet (*see col.3 lines 6-24: the packet data is to be transported*); and

a controller for generating the packet where an address of the destination slave device received from the master device through the transceiving unit is recorded in a destination address region (*see Fig.3: Destination Address field 54*), and for transmitting the packet through the transceiving unit to the destination slave device through the master device, when the wireless communication device is operated as the source slave device (*see Fig.7: in which, a packet is*

*transmitted from the slave 1 (source wireless communication device) to the slave 6 (destination wireless device) via the masters A and B).*

**b) In Regarding to Claim 2:** *Van further disclosed the controller records the address of the destination slave device in a header region of the packet (see the Destination Address field 54 in the packet header 36 in Fig.3).*

**c) In Regarding to Claim 3:** *Van further disclosed the controller records a source address in a payload region of the packet (see Fig. 8 and col.9 line 50 – col.10 line 1: in which, a packet sent from Slave 1 to Master A is composed of a data and a header; wherein the header includes a Sequence Number SN slave 1 (source address), the Master A receives the packet and generates a next-hop packet including a new packet header and a new payload, wherein the new payload inherently includes both the data and the source address (the SN slave 1) of the packet sent by the Slave 1, and the next-hop packet is sent to the Agent 22 connected to the Internet 98).*

**d) In Regarding to Claim 4:** *Van further disclosed the source address is allocated by the master device (see the described in the claim 3).*

**e) In Regarding to Claim 5:** *Van further disclosed 5 the destination address is an active member address which the master device allocates to distinguish the plurality of slave devices (see Fig.3: active member address (AM\_ADD) field 42; and col.5 lines 54-59).*

**f) In Regarding to Claims 6-8:** *the subject matters of these claims are the same as that of claims 1-3, respectively, except for the wireless communication device is operated as the master device. However, Van also explicitly disclosed such the master device (see col.2 lines 56-61). Therefore, Van explicitly disclosed all claimed subject matters of these claims.*

g) **In Regarding to Claims 9-12:** the subject matters of these claims are the same as that of claims 1-3 and 5, respectively. Therefore, the rejections to the claims 1-3 and 5 would apply to reject these claims in a system as taught.

h) **In Regarding to Claims 13-16:** the subject matters of these claims are the same as that of claims 1-3 and 5, respectively. Therefore, the rejections to the claims 1-3 and 5 would apply to reject these claims in a method as taught.

i) **In Regarding to Claim 17:** *Van* disclosed a communication method for a wireless communication system having a plurality of slave devices, including a source slave device and a destination slave device, and a master device that is connected to the plurality of slave devices and that has information of addresses allocated to the plurality of slave devices (*see Fig. 1*), the method comprising the steps of:

analyzing a packet from the source slave device (*see col.2 line 56-66: mapping (analyzing)*); and

transmitting the packet to the destination slave device, when an address recorded in a destination address region of the packet is an address of the destination slave device (*see col.2 lines 53-61: packets received at, and forwarded on*).

j) **In Regarding to Claim 18:** *Van* further disclosed the master device performs the analyzing and transmitting steps (*see col.2 lines 56-61: a master device*).

*Conclusion*


6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Anthony T Ton** whose telephone number is **571-272-3076**. The examiner can normally be reached on M-F: 9:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Chau Nguyen** can be reached on **571-272-3126**. The fax phone number for the organization where this application or proceeding is assigned is **703-872-9306**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Respectfully submitted,

by: *hua*  
Anthony T. Ton  
Patent Examiner  
March 08, 2005.

  
**PHIRIN SAM**  
**PRIMARY EXAMINER**